CONTENTS

Volume 55 · Number 1 · 1989

RESEARCH ARTICLES

Townsend, D. W., Radtke, R. L., Morrison, M. A., Folsom, S. D.
Recruitment implications of larval herring overwintering distributions in the Gulf of Maine, inferred using a new otolith technique 1–13

Karakiri, M., Berghahn, R., von Westernhagen, H.
Growth differences in 0-group plaice *Pleuronectes platessa* as revealed by otolith microstructure analysis 15–22

Steffe, A. S., Westoby, M., Bell, J. D.
Habitat selection and diet in two species of pipefish from seagrass: sex differences 23–30

Cary, S. C., Vetter, R. D., Felbeck, H.
Habitat characterization and nutritional strategies of the endosymbiont-bearing bivalve *Lucinoma aequizonata* 31–45

Bayne, B. L., Hawkins, A. J. S., Navarro, E., Iglesias, I. P.
Effects of seston concentration on feeding, digestion and growth in the mussel *Mytilus edulis* 47–54

Pineda, J., Escofet, A.
Selective effects of disturbance on populations of sea anemones from northern Baja California, Mexico 55–62

Ornes, W. H., Kaplan, D. I.
Macronutrient status of tall and short forms of *Spartina alterniflora* in a South Carolina salt marsh 63–72

Miller, D. C.
Abrasion effects on microbes in sandy sediments 73–82

Pedrós-Alió, C., Newell, S. Y.
Microautoradiographic study of thymidine uptake in brackish waters around Sapelo Island, Georgia, USA 83–94

Siron, R., Giusti, G., Berland, B.
Changes in the fatty acid composition of *Phaeodactylum tricornutum* and *Dunaliella tertiolecta* during growth and under phosphorus deficiency 95–100

Volume 55 · Numbers 2 and 3 · 1989

RESEARCH ARTICLES

Laprise, R., Dodson, J. J.
Ontogeny and importance of tidal vertical migrations in the retention of larval smelt *Osmerus mordax* in a well-mixed estuary 101–111

McCormick, M. I.
Reproductive ecology of the temperate reef fish *Cheilodactylus spectabilis* (Pisces: Cheilodactylidae) 113–120

Guzmán, H. M., Robertson, D. R.
Population and feeding responses of the corallivorous pufferfish *Arothron meleagris* to coral mortality in the eastern Pacific 121–131

Coull, B. C., Palmer, M. A., Myers, P. E.
Controls on the vertical distribution of meiobenthos in mud: field and flume studies with juvenile fish 133–139

Kennelly, S. J.
Effects of soak-time and spatial heterogeneity on sampling populations of spanner crabs *Ranina ranina* 141–147

Nugegoda, D., Rainbow, P. S.
Salinity, osmolality, and zinc uptake in *Palaemon elegans* (Crustacea: Decapoda) 149–157

Fischer, H.
Cadmium in seawater recorded by mussels: regional decline established 159–169

'Olafsson, E. B.
Contrasting influences of suspension-feeding and deposit-feeding populations of *Macoma balthica* on infaunal recruitment 171–179

Fielding, P. J. Davis, C. L.
Carbon and nitrogen resources available to kelp bed filter feeders in an upwelling environment 181–189

RESEARCH ARTICLES

Gajardo, G. M., Beardmore, J. A.
Ability to switch reproductive mode in *Artemia* is related to maternal heterozygosity 191–195

Marine Zooplankton Colloquium 1
Future marine zooplankton research – a perspective 197–206

Buskey, E. J., Baker, K. S., Smith, R. C., Swift, E.
Photosensitivity of the oceanic copepods *Pleuromamma gracilis* and *Pleuromamma xiphias* and its relationship to light penetration and daytime depth distribution 207–216

Lapota, D., Geiger, M. L., Stiffey, A. V., Rosenberger, D. E., Young, D. K.
Correlations of planktonic bioluminescence with other oceanographic parameters from a Norwegian fjord 217–227

Kiørboe, T.
Phytoplankton growth rate and nitrogen content: implications for feeding and fecundity in a herbivorous copepod 229–234

Sherr, E. B., Rassoulzadegan, F., Sherr, B. F.
Bacterivory by pelagic choreotrichous ciliates in coastal waters of the NW Mediterranean Sea 235–240

Weisse, T.
The microbial loop in the Red Sea: dynamics of pelagic bacteria and heterotrophic nanoflagellates 241–250

Piatkowski, U.
Macroplankton communities in Antarctic surface waters: spatial changes related to hydrography 251–259

Pitcher, G. C., Walker, D. R., Mitchell-Innes, B. A.
Phytoplankton sinking rate dynamics in the southern Benguela upwelling system 261–269

Cullen, J. J., MacIntyre, H. L., Carlson, D. J.
Distributions and photosynthesis of phototrophs in sea-surface films 271–278

Roy, S.
HPLC-measured chlorophyll-type pigments during a phytoplankton spring bloom in Bedford Basin (Canada) 279–290

Rivkin, R. B.
Influence of irradiance and spectral quality on the carbon metabolism of phytoplankton. I. Photosynthesis, chemical composition and growth 291–304